### PATENT COOPERATION TREATY

### **PCT**

REC'D 10 NOV 2003

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

WIPO PCT

Applicant's or agent's file reference	NOD PERMITTED A CHINOSE	See Notification	on of Transmittal of International	
1988.006PC06	FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA		
International application No.	International filing date (day/mor	nth/year)	Priority date (day/month/year)	
PCT/US01/43113	16 November 2001 (16.11.2001)		17 November 2000 (17.11.2000)	
International Patent Classification (IPC)	or national classification and IPC			
IPC(7): H04J 3/02, 3/14, 3/24; H04Q 1 413, 414, 419	1/04 and US CL.: 370/229, 230, 24	4, 352, 359, 39	5.1, 395.7, 395.71, 395.72, 398, 412,	
Applicant				
FOUNDRY NETWORKS, INC.				
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>				
<ol><li>This REPORT consists of</li></ol>	a total of 🔑 sheets, including	this cover shee	et.	
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rufe 70.1 foad Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a	total of sheets.			
<ol> <li>This report contains indica</li> </ol>	ations relating to the following i	tems:		
I Basis of the rep	ort			
II Priority				
III Non-establishme	ent of report with regard to nov	elty, inventive	step and industrial applicability	
IV Lack of unity of invention				
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report				
14 June 2002 (14.06.2002) 21 October 2003 (21 <sub>3</sub> 10.2003)			(0.2003)	
Name and mailing address of the IPEA/U	JS Autho	Authorized officet		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	ltm	a Rao M	can de la land	
P.O. Box 1450 Alexandria, Virginia 223 13-1450	Į V	10ne No. 703-3	05.4750	
Facsimile No. (703)305-3230	recopi	IOIL 110. /03-3	05-4750	

Form PCT/IPEA/409 (cover sheet)(July 1998)

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US01/43113	

1.	Bası	s of the report				
1.	With	regard to the elements of the international application:*				
	$\boxtimes$	the international application as originally filed.				
	the description:					
		pages 1-86 as originally filed				
		pages NONE , filed with the demand				
	_	pages NONE, filed with the letter of				
	$\bowtie$	the claims:				
		pages 87-114 , as originally filed				
		pages NONE, as amended (together with any statement) under Article 19				
		pages NONE , filed with the demand pages NONE , filed with the letter of .				
	N					
	$\triangle$	the drawings				
		pages 1-50, as originally filed pages NONE, filed with the demand				
		pages NONE , filed with the letter of .				
	$\Box$	the sequence listing part of the description:				
	ш	pages NONE, as originally filed				
		pages NONE , filed with the demand				
		pages NONE , filed with the letter of				
2.		regard to the language, all the elements marked above were available or furnished to this Authority in the				
		uage in which the international application was filed, unless otherwise indicated under this item.				
	Thes	e elements were available or furnished to this Authority in the following language which is:				
the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
	$\perp$	the language of publication of the international application (under Rule 48.3(b)).				
	Ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).				
3.		n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the national preliminary examination was carried out on the basis of the sequence listing:				
		contained in the international application in printed form.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority in written form.				
	Щ	furnished subsequently to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.				
4.	$\Box$	The amendments have resulted in the cancellation of:				
		the description, pages NONTE				
		the description, pages NONE the claims, Nos. NONE				
		the drawings, sheets/fig NONE				
_						
5.	Ш	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**				
		cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in				
		ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).  replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	_
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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
<ol> <li>The question whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:</li> </ol>					
	the entire international application,				
$\boxtimes$	claims Nos. <u>12-137</u>				
becaus	e:				
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):				
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):				
	'				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
$\boxtimes$	no international search report has been established for said claims Nos. 12-137				
	mingful international preliminary examination cannot be carried out due to the failure of the medeotide and/or amino acid ace listing to comply with the standard provided for in Annex C of the Administrative Instructions:				
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				
nom	/IDEA/400 /Dox III) /fulv 1998)				

Form PC1/1PEA/409 (Box III) (July 1998

# International application No. INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT/US01/43113 IV. Lack of unity of invention 1. In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted nor paid additional fees. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees. 3. This Authority considers that the requirement of unity of invention is accordance with Rules 13.1, 13.2 and 13.3 is complied with, not complied with for the following reasons: Please See Continuation Sheet 4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:

the parts relating to claims Nos. 1-11

all parts.

International application No.

INTERNATIONAL PRELIMINARY EXAMINA	ATION R	EPORT	PCT/US01/43113
V. Reasoned statement under Rule 66.2(a)(ii) w citations and explanations supporting such st			, inventive step or industrial applicability;
1. STATEMENT			
Novelty (N)	Claims	1-11	YES
	Claims	NONE	NO
Inventive Step (IS)	Claims	4-7	YES
	Claims	1-3 and 8-11	N0
Industrial Applicability (IA)	Claims	1-11	YES
	Claims	NONE	NO
input ports to the output ports of the switch fatheric dearly ports, coupling the switching father is in claims 1 and 1.1 I/O module providing this information to the imputs of the information from the various I/O modules to assist with control information to the switching father as in claims 1 processor interconnecting the switch course flathering the processor interconnecting the switch course of the control module with control information to the switching father as in claims 1 and 9. Col. 8 lines 21.59 which recibe the port mapping switch father, and as an nor moreo-point switch father, and as an more cost-point switch father, and a data portfor wherein these command cells having a size no greater than 160 bytes and a paylor recibe the term blades and serial player as in claims 1 and blades are merely circuit cords, including ports intercount has been convious to substitute the terms blades and serial player intercount has been convious to substitute the terms blades and serial player.  NEW CITATIONS	1. Fig. 1 ie switch ficarrying of and 11. ig serial de ing fabric memory it early antice early antice and of data 11; howeverted by sel pipes fo	which shows the brie including to the switchin Further, col. 3 ta signals clean as in claims 1 includes the for cipate the switce e various mode its are provided no greater than ver, applicant e witch fabric ar r circuit cards	he I/O modules receiving information, whereby use I/O modules receiving control in the switch control module receiving control general celently anticipate outputting in-band lime 45 to col. 41 med 22 which receive the cell flow typ anticipate the serial pipes, i.e. serial links, and I/O-II and the peacet processors on inclaims 8 seground port mapping data for the foreground hings their includes corso-points as in claims 1 and see are provided as communication cells having a in ATM formar, for the like clearly anticipate the relation 148 bytes us in claim 7. Manning et al. did not valual in the segretication pages 1 and 2 that all serial pipes are merely serial links. It would on persist interconnected by switch fisher cased serial control of the

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	rental	

. . . .

(To be used when the space in any of the preceding boxes is not sufficient)

IV. 3. This Authority considers that the requirement of unity of invention is accordance with Rules 13.1, 13.2 and 13.3 is not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group 1, claim(s) 1-11, drawn to switching control including serial-parallel or parallel-serial conversion for input or cutput.

Group II, claim(s) 12-60, drawn to switching control including time and space switches.

Group III, claim(s) 61-74, drawn to techniques for communication using message having an address header.

Group IV, claim(s) 75-94, drawn to pathfinding or routing using a queuing arrangement.

Group V, claim(s) 95-108, drawn to pathfinding using queuing including contention resolution.

Group VI, claim(s) 109-125, drawn to combining or distributing information via time channels including synchronizing.

Group VII, claim(s) 126-135, drawn to switching control including a bus switch.

The inventiona listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical fleatures for the following reasons: Group 1 is drawn to switching control including seinl-parallel or parallel-serial conversion for input or output, while Group II is drawn to switching control including time and space switches, Group II is drawn to techniques for communication using message having an address baselot (Group IV is drawn to publifinding output or positioning using a questing including contention resolution, Group VI is drawn to combining or distributing information via time channels including synchronizing, and Group VII is drawn to switching control including a bus switch.